



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 15 89 39 13

Classification of the application (IPC):

H04W 88/08, H02J 7/00, H02J 1/10, G06F 1/26, H04W 52/38, H04W 88/02

Technical fields searched (IPC):

H02J, G06F, H04W

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	US 6212403 B1 (USHIRODA HITOSHI [JP]) 03 April 2001 (2001-04-03) * column 2, line 51 - column 7, line 35; figure 1 *	1, 2, 5-8
X	US 8843178 B1 (WONG JOHN [TW]) 23 September 2014 (2014-09-23) * column 9, line 35 - column 9, line 67; figures 2A, 4B *	1, 3, 4

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search Munich	Date of completion of the search 13 September 2018	Examiner Telega, Pawel
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CATEGORY OF CITED DOCUMENTS

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| Y: particularly relevant if combined with another document of the same category | T: theory or principle underlying the invention |
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ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 13-09-2018
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Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 6212403	B1	03-04-2001	DE	69832438 D1	29-12-2005
			DE	69832438 T2	27-07-2006
			EP	0889659 A2	07-01-1999
			JP	3633756 B2	30-03-2005
			JP	H1127202 A	29-01-1999
			US	6212403 B1	03-04-2001
US 8843178	B1	23-09-2014	CN	103841182 A	04-06-2014
			CN	203708288 U	09-07-2014
			TW	201445996 A	01-12-2014
			US	8843178 B1	23-09-2014